Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty.	Cost	Qty.	Rate Rs. P.	Amount	Qty	Cost	
			114.00			0.00	
			318.00			0.00	
		143.75	74.00	10638.00	143.75	10638.00	
		19.55	4393.00	85883.00	19.55	85883.00	
		86.59	5945.00	514778.00	86.59	514778.00	
		366.81	232.00	85100.00	366.81	85100.00	
		78.623	7747.00	609092.00	78.62	609092.00	
			116.00				
			1626.00				
		18.36	4893.00	89835.00	18.36	89835.00	
			74.00				
			74.00				
		2929.00	298.00	872842.00	2929.00	872842.00	
			60.00				
			Rs	28709871.00	Rs	28620036.00	

Rs. 2,50,51,639/- Rs. 2,50,51,639/-

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Sl. No.	Items grouped under sub-Heads and Sub-Works of the Estimate	Unit
1	Cutting of trees girth from 600mm to 900mm including cutting of trunks, branches and removal of stumps stacking of serviceble materials with all lead & lift, earth filling in the depressions / pit, labour charges complete as per specifications. Speicifcation No KRBS 200-1, MORT&H Specification No.201.	Each
2	Cutting of trees girth from 900mm to 1800mm including cutting of trunks, branches and removal of stumps stacking of serviceble materials with all lead & lift, earth filling in the depressions / pit, labour charges complete as per specifications. Speicifcation No.KRBS 200-1, MORT&H Specification No.201.	Each
3	Cutting of trees girth from 1800mm to 2700mm including cutting of trunks, branches and removal of stumps stacking of serviceble materials with all lead & lift, earth filling in the depressions / pit, labour charges complete as per specifications. Speicifcation No.KRBS 200-1, MORT&H Specification No.201.	Each
4	Cutting of trees girth above 2700mm including cutting of trunks, branches and removal of stumps stacking of serviceble materials with all lead & lift, earth filling in the depressions / pit, labour charges complete as per specifications. Speicifcation No.KRBS 200-1, MORT&H Specification No.201.	Each
5	KSRRB M200-12.1. Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising of masonry,cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications.111) KSRRB M200-12.3. –do– C. Prestressed / Reinforced cement concrete grade M-20 & above.MORTH specification No.202	Cum
6	KSRRB M200-14.1. Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. KSRRB M200-14.2. –do– Dismantling brick/Tile work B. In cement mortar.	Cum
7	KSRRB M200-15.1. Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. KSRRB M200- 15.2. –do– B. Rubble stone masonry in cement mortar.	Cum
8	Removing B.S. slab of Drain and stacking and (Page 23/ 5.32)	Sqm
9	KSRRB M300-11. Excavation for road way in soil by mechanical means including cutting and pushing the earth to site of embankment upto a including trimming bottom and side slopes in accordance with requirements of lines, grades and cross sectins complete as per specifications. (P-153/19.11)	Cum
10	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, mixing in a mechanical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. (P - 151/20.4.2) For Grading II Material.	Cum
11	KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification no.406 (P - 154/20.18)	Cum
12	KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No.502 (P - 157/21.6) Extra. 4899.07	Sqm
13	KSRRB M-500-17, Providing and laying dense bituminous macadam 50-75mm compacted thickness with 4.5% bitumen 60/70 grade, contents on prepared surface with specified graded crushed aggregates for base/ binder course including loading of material with FE loader, heating of binder aggregates and filter in hot mix plant 40-60 TPH, transporting the mixed material by tipper and laying with paver finisher to required level and grade, rolling by power roller to the achieve the desired density (but excluding primer / tack coat) including cost of all materials, labour, HOM of machineries complete as per specifications. Grading 2 MORTH/ Chapter 5. (P - 159/21.17.6) 243 Extra	Cum
14	KSRRB M500-7. Providing and applying tack coat on the prepared black topped surfaces at 2.5 Kg per 10 Sqm, heating bitumen in boiler filled with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 (P157/21.7) Ex. 2838.59	Sqm
15	Providing and laying bituminous concrete 40mm thick with 20 TPH batch type hot mix plant producing as average output of 75 Tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 To 5.6% 5.00 of mix and filler, transporting the hot mix To work site, laying with a hydrostatic paver finisher with sensor control To the required grade, level and alignment, rolling with smooth wheeled, vibraTory and tandem rollers To achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects, with 40 mm compacted thickness (Grading II) with 6% Bitumen 60/70 grade using 40-60 HMP using mechanical paver(P 161 It 21.22.6) Extra 113.54	Cum
16	KSRRB M800-13. Providing and Laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 The finished surface to be level, uniform and free from streaks and holes complete as per specifications.MORTH Specification No. 803(P-178/24.15) - Road Marking	Sqm

Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty.	Cost	Qty.	Rate Rs. P.	Amount	Qty	Cost	
			529.00				
			1291.00				
			2019.00				
			4039.00				
			936.00				
			222.00				
			222.00				
			57.00				
		2697.30	70.00	188811.00	2697.30	188811.00	
		2052.02	1272.00	2610169.00	2052.02	2610169.00	
		1877.12	1410.00	2646739.00	1877.12	2646739.00	
		14200.00 22099.07	35.00	6,02,000/- 773467.00	14201.00 22099.07	6,02,000/- 773467.00	
		860.00 1103.00	8882.00	76,38,520/- 9796846.00	860.00 1103.00	76,38,520/- 9796846.00	
		19,450.00 22288.59	18.00	3,50,100/- 401195.00	19450.00 22288.59	3,50,100/- 401195.00	
		778.00 891.54	11244.00	81,47,832/- 10024476.00	778.00 891.54	81,47,832/- 10024476.00	
			466.00				

Sl. No.	Items grouped under sub-Heads and Sub-Works of the Estimate	Unit
17	KSRRB M800-11. Painting lines, dashes, arrows etc.., on roads in two coats on New work:- Painting lines,dashes, arrows etc on road in two coats on new work with ready mixed road marking paint confirming to IS-164 on bituminous surface, including cleaning the surface of all dirt, dust and other forign matter, demarcation at site and traffic control complete as per specifications.i) Over 10 cm in width MORTH Specification No. 803(P-178/24.11) - Road Marking	Sqm
18	Providing and fixing of Reflective Raised Pavement marker (RPM's)/ Cat eyes / Road studs confirming to ASTM D4280 type H, having reflective panels made of prismatic lens of total internal reflection, the prismatic lens should be electronically fixed (welded) to the body made of polycarbonate mould, with a height of 20mm, size of 130mm X 105mm and reflecting area of 13Sqcm with the slope of retro reflective surface within the limit of 35+ 5 degree to the base on either side. The marker shape II display an initial minimum luminous intensity of 79mcd/lux at an entrance angle of zero degree and observation angle of 0.2degree.The corresponding values for 20 degree entrance and 0.2 degree observation angle shall be 112 mcd/lux with color multiplying factor on either cases for white, yellow and red markers being 1.0, 0.6 and 0.25 respectively" The RPM's should be fixed by using two numbers of polymer shanks using appropriate adhesive as recommended and certified by the RPM manufacturer. The raised pavement marker should support a sufficient minimum load 13635 Kg in accordance with ministry specification.(P-290/38.32)	No
19	KSRRB 300 - 1 : Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / chapter 3 (P-138/19.1)	Cum
20	KSRRB 2900-1 : Plain cement concrete M10 mix with crushed stone aggregate 40 m nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications MORTH Specification No.408 - .(P-244/34.1) - Bed Concrete	Cum
21	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum, with superplasticiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness). including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cill, fillet etc. including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1, 4.6 (Page 13/4.11) - For New Drain	Cum
22	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (Page 16/4.28) - For New Drain	Sqm
23	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured & paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3(P-19/4.46.1) - For New Drain	Qtl
24	KSRB 2.3: Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. In depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. incldng cost of all labour complete as per specifications. Specification. No. KBS 2.9 (P-06/2.10)	Cum
25	Providing & laying precast drain cover slab of 100 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.20 x 0.60 x 0.10) (RA as per BBMP)	Sqm
26	Providing & laying precast drain cover slab of 250 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.80 x 0.45 x 0.25)	Sqm
27	Refixing of slab of drain and pointing in CM 1:3 (Page 25/ 5.33)	Sqm
28	KSRRB 300 - 1 : Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / chapter 3 (P-138/19.1)	Cum
29	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.(P-25/5.30)	No
30	KSRRB M800-6. Painting two coats on New Concrete Surface:-Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces complete as per specifications. MORTH Specification No.803 (P-177/24.7) - On Kerb Stone	Sqm
	TOTAL	